

WHAT IS CLAIMED IS:

1. A method of locating multiple passive electronic marker types; said method comprising:
 - transmitting a signal;
 - 5 receiving a signal from a marker; and
 - determining a marker type based upon said receiving.
- 10 2. The method as claimed in claim 1, wherein said determining a marker type includes:
 - determining a frequency distribution of a received signal.
- 15 3. The method as claimed in claim 2, wherein said determining a frequency distribution includes:
 - passing the received signal through a plurality of parallel narrow-band filters.
- 20 4. The method as claimed in claim 2, wherein said determining a frequency distribution includes:
 - performing a Fourier Transform on the received signal.
- 25 5. The method as claimed in claim 2, wherein said determining a frequency distribution includes:
 - performing synchronous detection on the received signal.
- 30 6. The method as claimed in claim 5, wherein said performing synchronous detection comprises:

sequentially processing the received signal with in-phase and phase-shifted reference frequencies.

5 7. The method as claimed in claim 1, wherein said transmitting comprises transmitting a signal at multiple frequencies.

10 8. The method as claimed in claim 1, further comprising displaying the identity of a located marker responsive to said determining.

15 9. The method as claimed in claim 1, further comprising displaying a received signal strength for all marker types.

10. A method of locating multiple passive electronic marker types; said method comprising:

20 sequentially transmitting and receiving at each of a plurality of marker type frequencies; and determining an amplitude value for each marker type frequency received responsive to said sequentially transmitting and receiving.

25 11. The method as claimed in claim 10, further comprising displaying a marker type associated with the greatest amplitude value responsive to said determining.

30 12. The method as claimed in claim 10, including displaying an amplitude value for each marker type.